

Detailed search strategy of one database as an example:  
PubMed:  
(((“risk factor”[Title/Abstract]) OR (predict\*[Title/Abstract])) AND (((sever\*[Title/Abstract]) OR (multisystem inflammatory syndrome[Title/Abstract])) OR (death[Title/Abstract])) OR (mortality[Title/Abstract]))) AND (((“COVID-19”[Title/Abstract] OR “Novel Corona Virus”[Title/Abstract] OR “SARS-Cov-2”[Title/Abstract] OR “coronavirus disease 2019”[Title/Abstract] OR “COVID-19”[MeSH Terms]))

**Table S1** Brief summarization of COVID-19 related mortality among children and young people

First author	Country	Data sources	Population		Cut-off date	Variants of concern	Mortality
			Number	Age			
Yuanyuan Dong (21)	China	Nationwide case series reported to the Chinese Center for Disease Control and Prevention	731 confirmed COVID-19 patients and 1,412 suspected patients	Younger than 18 years old	Jan - Feb, 2020	Wild-type	a 14-year-old boy from Hubei province died
Stefania Bellino (19)	Italy	The national case-based surveillance system	3,836 Confirmed COVID-19 patients, 511 were hospitalized	Younger than 18 years old	- May, 2020	Wild-type	0.1% (4/511)
Aline de Siqueira Alves Lopes (22)	Brazil	The health surveillance and mortality information systems of Sergipe’s Health Secretary and hospital records	37 COVID-19 related deaths	Younger than 19 years old	-Sep, 2020	Wild-type	4.87 deaths for 100000 population <19 years old; most deaths occurred among infants (44.1/100,000)
Leora R. Feldstein (12)	USA	COVID-19 network including 66 hospitals in 31 states	Case series of 1116 patients, 539 were diagnosed with MIS-C and 577 with COVID-19	Younger than 21 years old	Mar - Dec, 2020	Wild-type	10 (1.9%) with MIS-C and 8 (1.4%) with COVID-19
Olivia V Swann (14)	United Kingdom	260 hospitals in England, Wales, and Scotland	627 hospitalized COVID -19 patients	Younger than 19 years old	Jan - July, 2020	Wild-type	1% (6/627)
A. Danielle Iuliano (13) <sup>†</sup>	USA	CDC examined data from three surveillance systems and a large health care database. Data on in-hospital deaths were available from a subset of 148 hospitals	147 hospitalized COVID -19 patients	Younger than 17 years old	Jan 1-21, 2021	Wild-type	1.1% (1/87)
			272 hospitalized COVID -19 patients	Younger than 17 years old	Aug - Sep, 2021	Delta	0
			405 hospitalized COVID -19 patients	Younger than 17 years old	Dec, 2021 -Jan, 2022	Omicron	0
Judith Ju Ming Wong (15)	Seven countries (China, Japan, Singapore, Malaysia, Indonesia, India, and Pakistan)	Eight hospitals across seven countries contributed data to the Pediatric Acute and Critical Care COVID-19 Registry of Asia (PACCOVRA)	849 patients suspected of COVID-19, of whom 260 (30.6%) were laboratory-confirmed COVID-19 cases	Younger than 21 years old	Jan - Nov, 2020	Wild-type	2.3% (6/256, all of which occurred in India and Pakistan)
Jean B. Nachega (10)	Six Sub-Saharan African Countries	Data from 25 hospitals Democratic Republic of the Congo (7 facilities), Ghana (2 facilities), Kenya (1 facility), Nigeria (2 facilities), South Africa (10 facilities), and Uganda (3 facilities)	469 hospitalized COVID-19 patients	Younger than 19 years old	Mar - Dec, 2020	Wild-type	8.3% (39/469)
Joseph L. Ward (11)	England	Data for all hospitalizations	6,338 hospitalizations with COVID-19 patients	Younger than 17 years old	Feb, 2019 - Jan, 2021	Wild-type	0.13% (8/6,338)
Eduardo A Oliveira (16,17)	Brazil	the Influenza Epidemiological Surveillance Information System (a nationwide surveillance database of patients admitted to hospital with severe acute respiratory disease)	11,613 hospitalized with COVID-19 patients	Younger than 20 years	Feb, 2020 -Jan, 2021	Wild-type	7.6% (886/11,613)
			10,017 Hospitalized with COVID-19 patients	Younger than 20 years	Jan - May, 2021	Gamma variant	7.6% (765/10,017)
Clare Smith (8)	England	The National Child Mortality Database (NCMD)	61 COVID-19 patients died with a positive SARS-CoV-2 test	Younger than 18 years	Mar, 2020 -Feb, 2021	Wild-type	<0.01% 25/12,023,568 CYP living in England
Chanapai Chaiyakulsil (18)	Thailand	Thammasat University Hospital care system, Thailand	698 hospitalized with COVID-19 patients	Younger than 15 years old	Apr - Aug, 2021	Delta and Alpha	0.1% (1/698)
Dallas J. Smith (20) <sup>†</sup>	China	Death counts were obtained from the Hong Kong Department of Health, China	Total number of deaths related to COVID-19	Younger than 19 years old	Jan - Mar, 2022	Omicron	11 death

<sup>†</sup>, the study contains adult population, but only the information of children and young people was presented in this table. COVID-19, Coronavirus disease 2019; CDC, center of disease control; MIS-C, multisystem inflammatory syndrome in children and adolescents temporarily related to covid-19; CYP, children and young people.